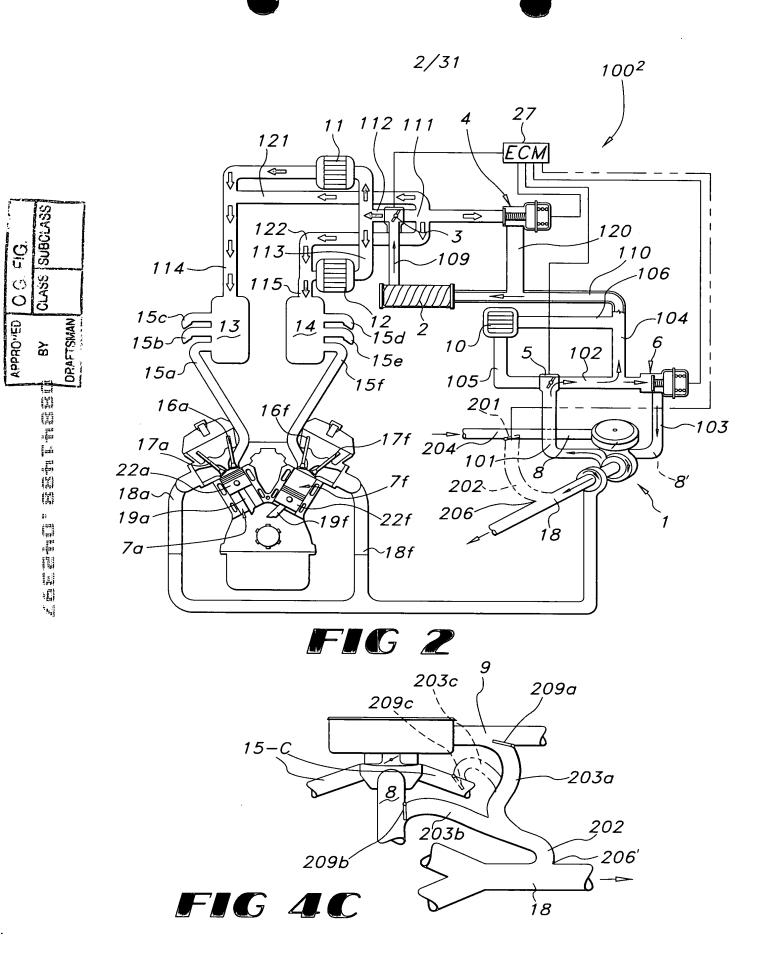


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FIG 1



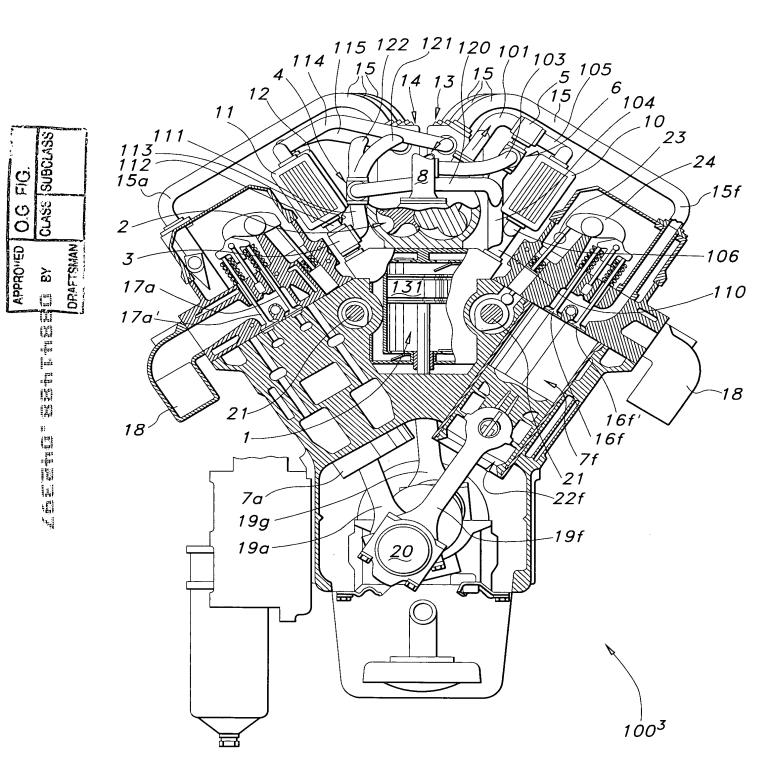
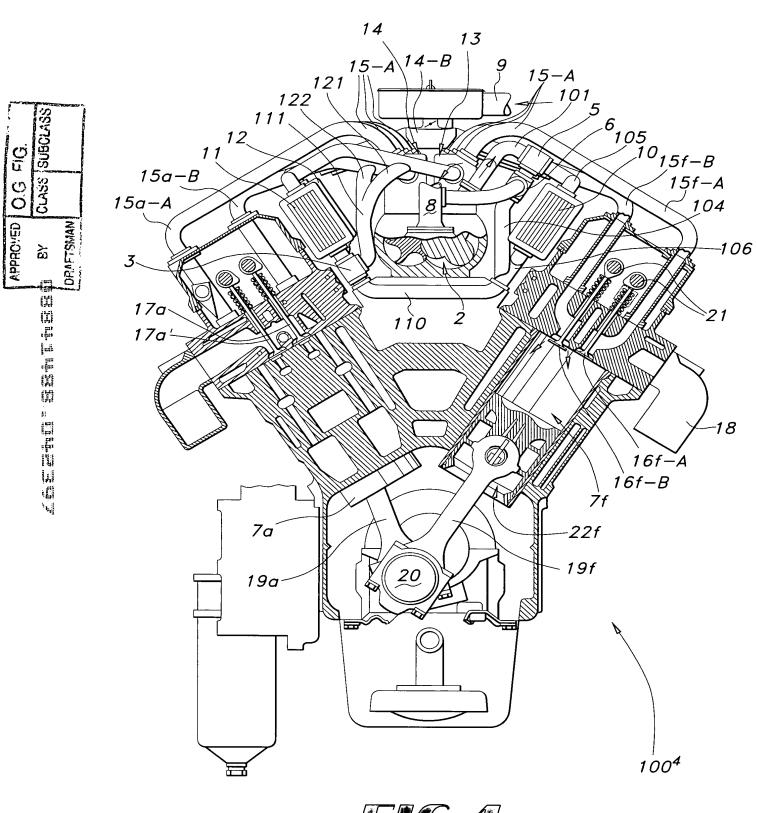


FIG 3



FDG 4

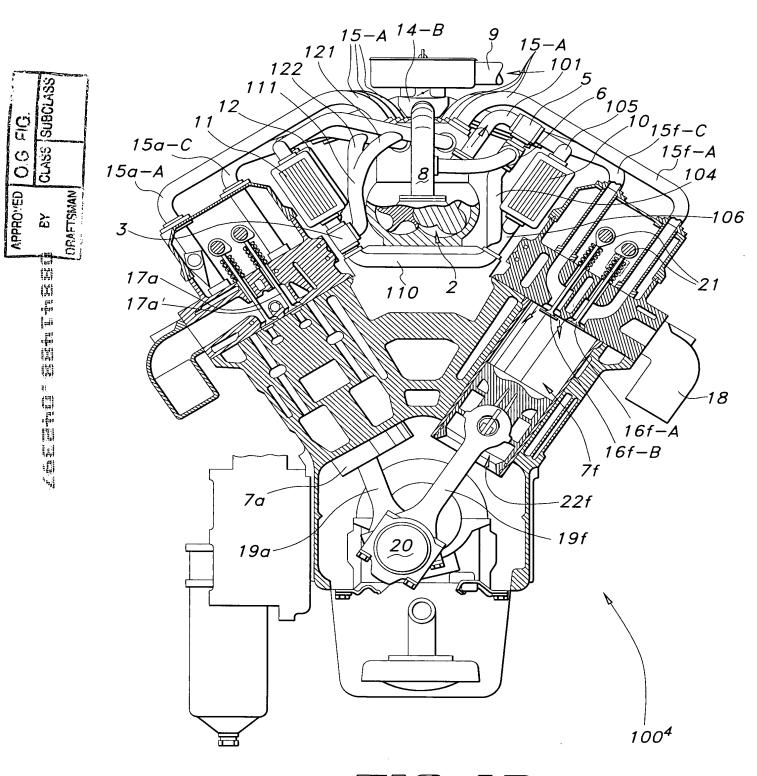
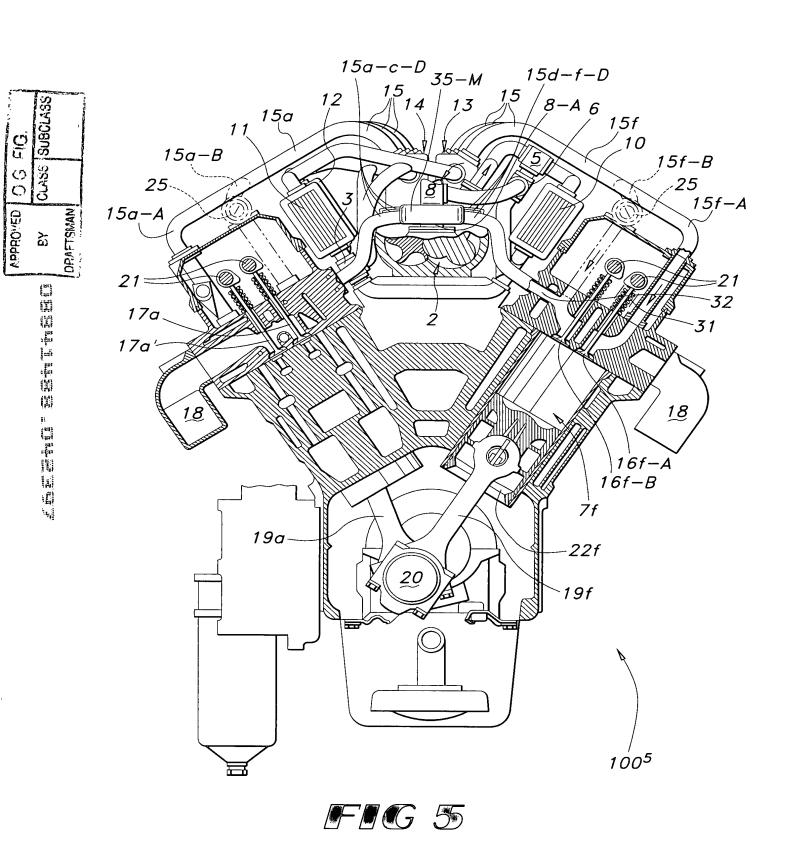


FIG 4B



7/31 15_B 10 21-B / 21-A 104 15-A 106 110-31 32 16-A 16-B <u>18</u> 130 26 19 22 <u>20</u> 100

FIG 6

The first than the control of the co

APPROVED O.G. FIG.

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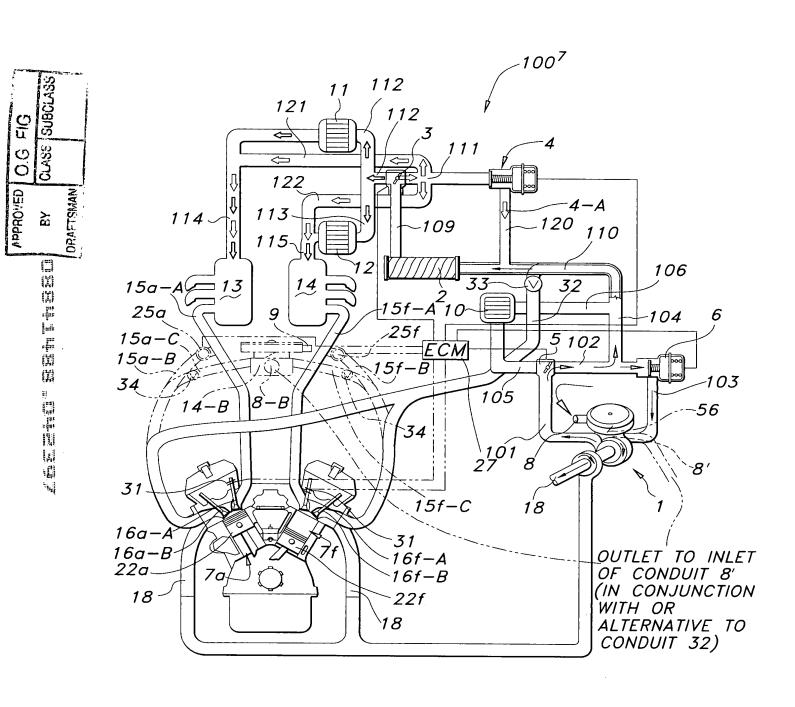
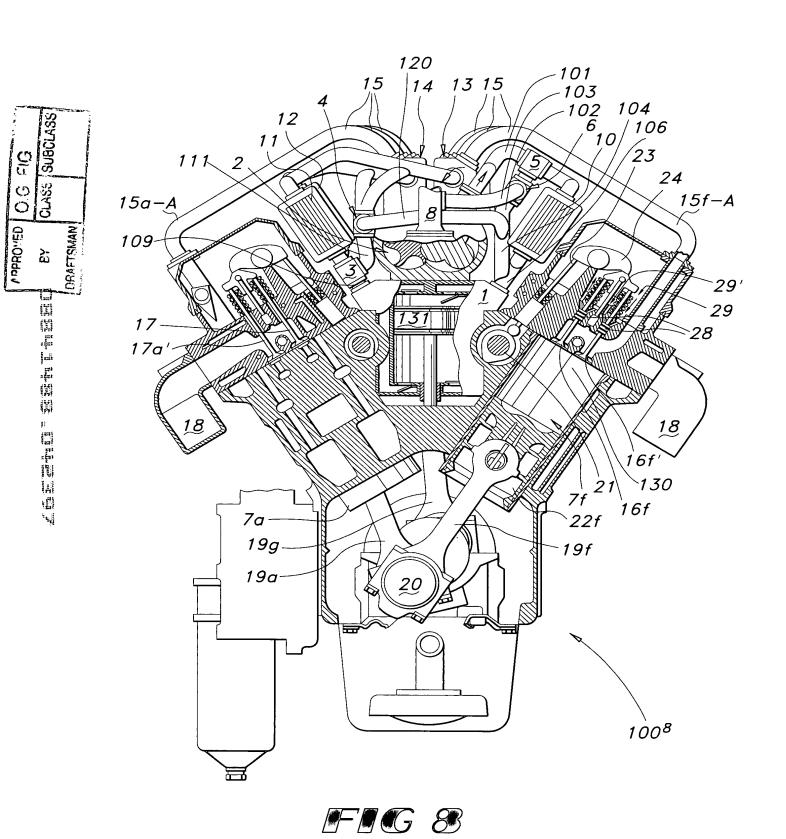


FIG Z



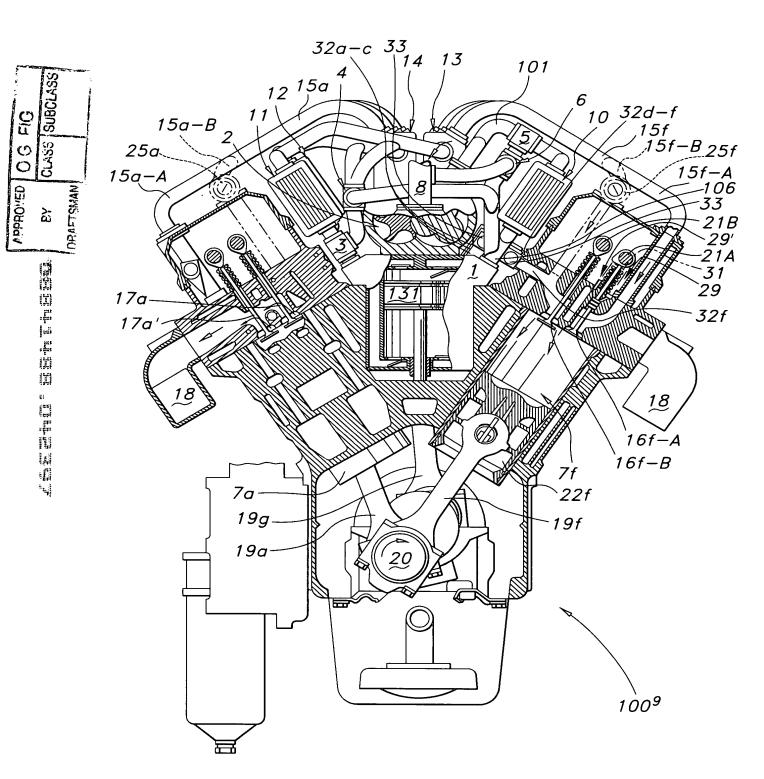


FIG 9

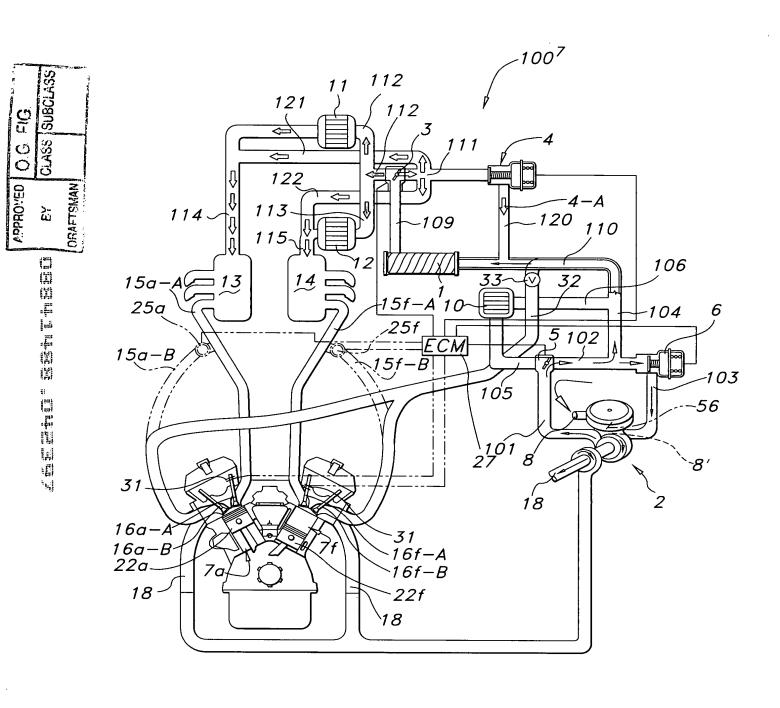
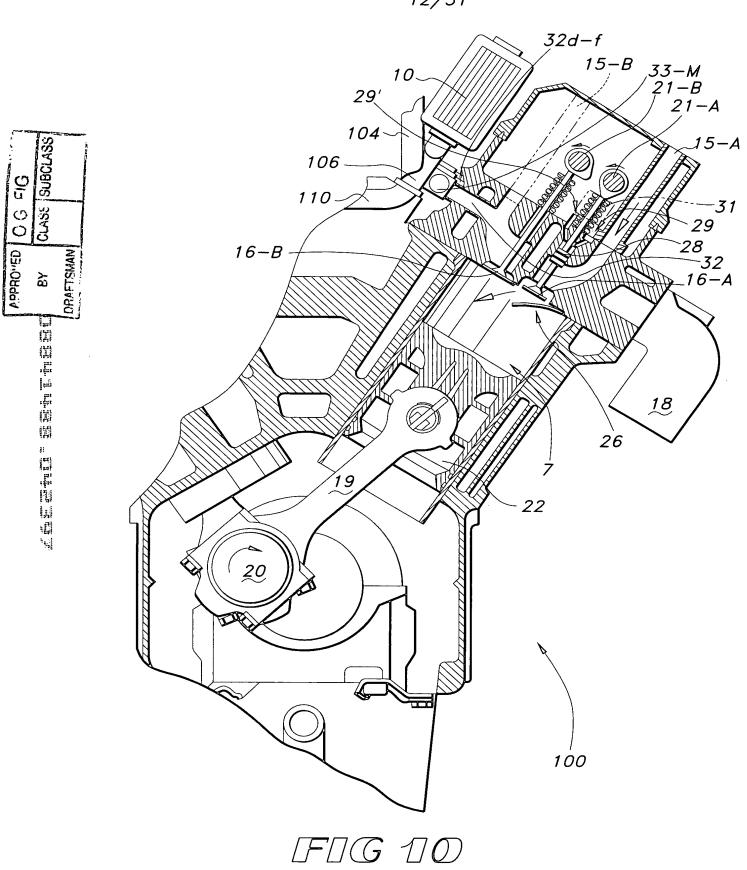
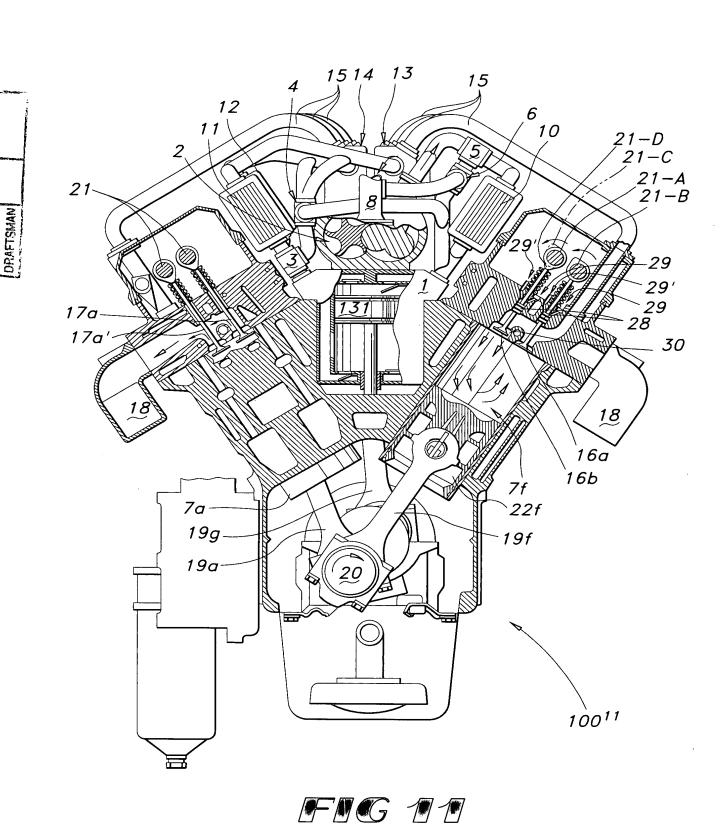


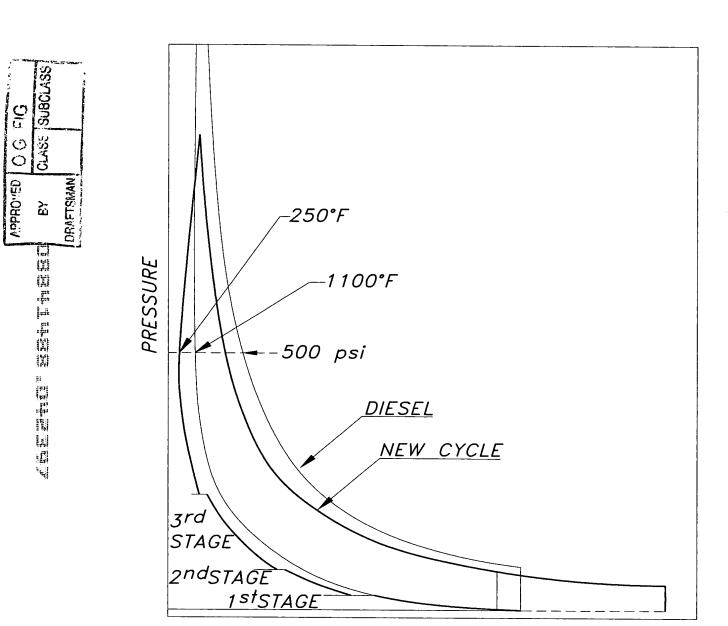
FIG 9B





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APPROVED O G FIG BY GLASS SUBGLASS



VOLUME
FIG 12

CLASS SUBCLASS APPROVED OG FIG DRAFTSKIAN 3 THE LEASE THE SEC

COMPARISON OF OPERATING PARAMETERS OF A HEAVY DUTY TWO-STROKE DIESEL ENGINE (A)

WITH THE ENGINE OF THIS INVENTION (B)

ENGINE	COMPRESSION	EFFECTIVE	COMPRESSION	TEMP @	TEMP @	CHARGE	EXPANSION	ш Ж	CHARGE
	RATIO	COMP	PRESSURE	END COMP	END COMB	DENSITY		C.R.	WEIGHT PER
	OR NOMINAL	RATIO							REVOLUTION
	COMPRESSION RATIO		(PSI)	(DEG F.)	(DEG F.)	(DEG F.) (LB./CU. FT.)			(GRAMS)
4	19:1	19:1	907	1300	3400	1.45	*10:1	0.5	2.06
B(ic)	13:1	2:1	533	250	3000	2.03	**19:1	1.5	2.86
B(bp)	13:1	13:1	533	992	۸3100	1.01	**19:1	1.5	1.43
		·							
B2(ic)	10:1	2:1	369	250	√2800	1.40	**19:1	1.9	1.98
B2(bp)	10:1	10:1	369	871	۷2900	0.75	**19:1	9:1	1.06

Exhaust valve opens midstroke

15/31



Exhaust valve opens near BDC

Air charge intercooled except for last stage of compression (jc)

Intercoolers bypassed (dq) <

Estimated

EXPANSION RATIO COMPRESSION RATIO H т В В

16/31

APPROVED O.G. CIG. BY GLASS SUBCLASS DRAFTSMAN

COMPARISON OF OPERATING PARAMETERS OF A HEAVY DUTY FOUR-STROKE DIESEL ENGINE (A)

WITH THE ENGINE OF THIS INVENTION (B)

ENGINE	COMPRESSION	EFFECTIVE	COMPRESSION	TEMP @	TEMP @	CHARGE	EXPANSION	E.R.	CHARGE
	RATIO	COMP	PRESSURE	END COMP	END COMB	DENSITY	RATIO C. R.	ن	WEIGHT PER
٠.	OR NOMINAL	RATIO							REVOLUTION
	COMPRESSION RATIO		(PSI)	(DEG F.)	(DEG F.)	(DEG F.) (LB./CU. FT.)			(GRAMS)
A	19:1	19:1	907	1300	3400	1.45	19:1	1.0	*1.03
B(ic)	13:1	2:1	533	250	3000	2.03	19:1	1.5	1.5 **2.86
B(bp)	13:1	13:1	533	992	٨3100	1.01	19:1	1.5	**1.43
B2(ic)	10:1	2:1	369	250	√2800	1.40	19:1	1.9	**1.98
B2(bp)	10:1	10:1	369	871	v2900	0.75	19:1	1.9	1.9 **1.06

*

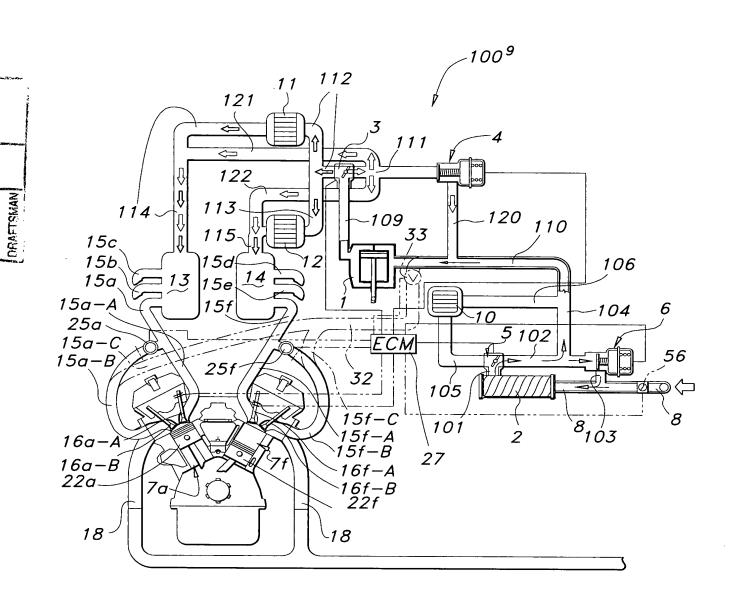
Per revolution, not per firing stroke Per revolution and per firing stroke Air charge intercooled except for last stage of compression (ic) (bb) <

Intrecoolers bypassed

Estimated

EXPANSION RATIO COMPRESSION RATIO ij ы S S

FUC 11

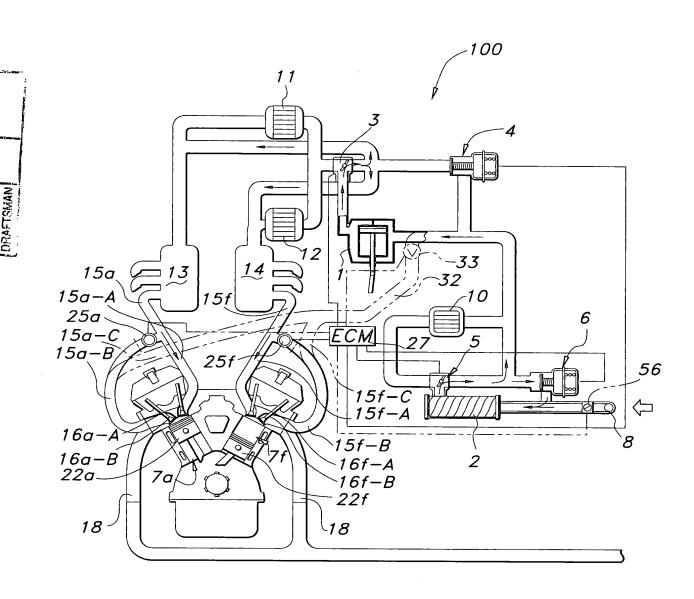


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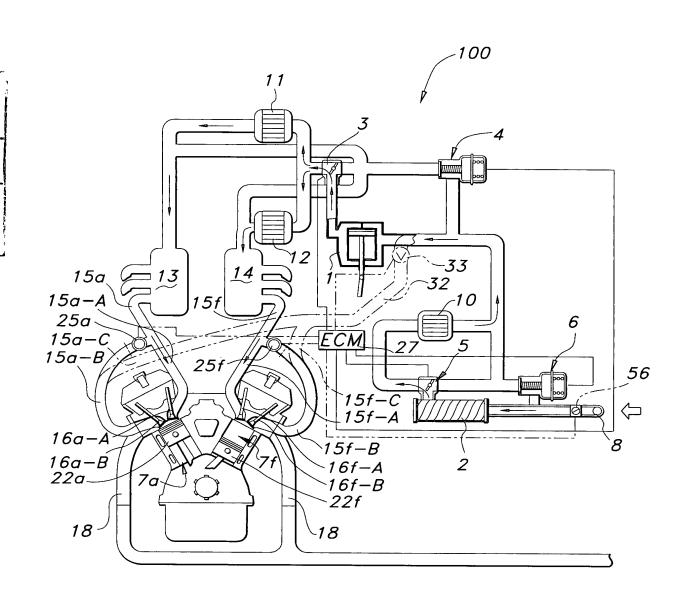
FIG 15



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A STATE STATEMENT BY

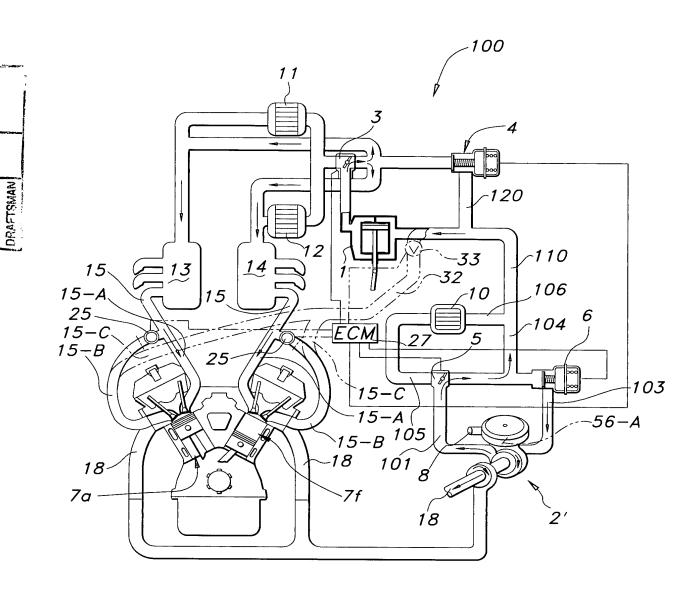
FIG 16



APPROVED O G GIG

THE SEE SEE SEE

FIG 17

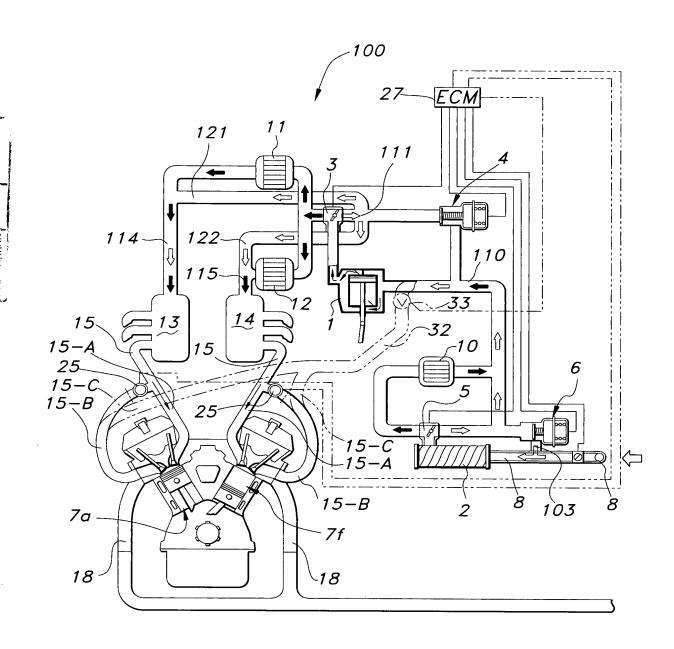


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APPROVED O G FIG

FIG 18

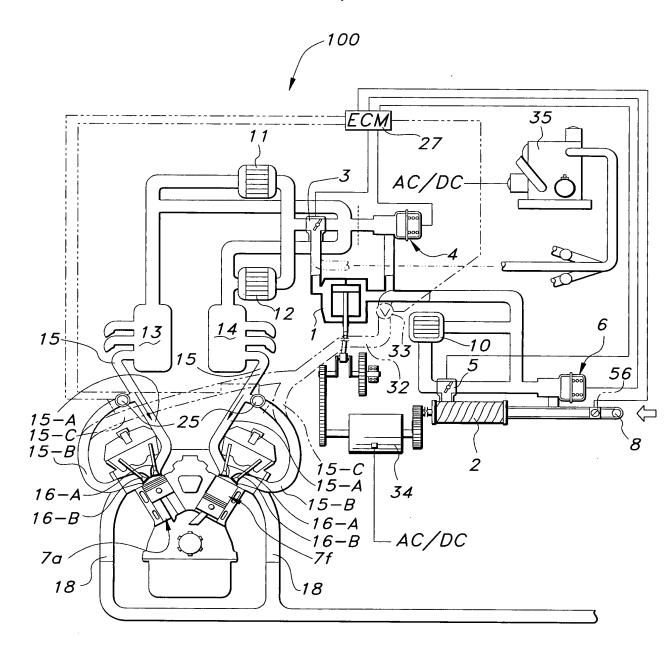


APPROVED O G CIG

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TERFICE EFFE

FIG 19



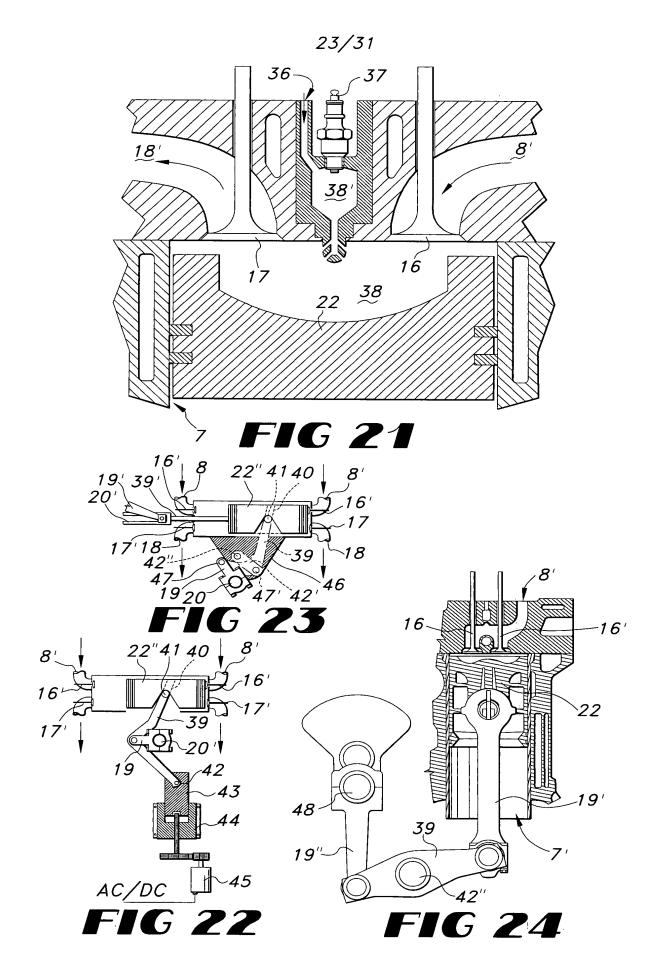
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APPROVED O G FIG

FIG 20



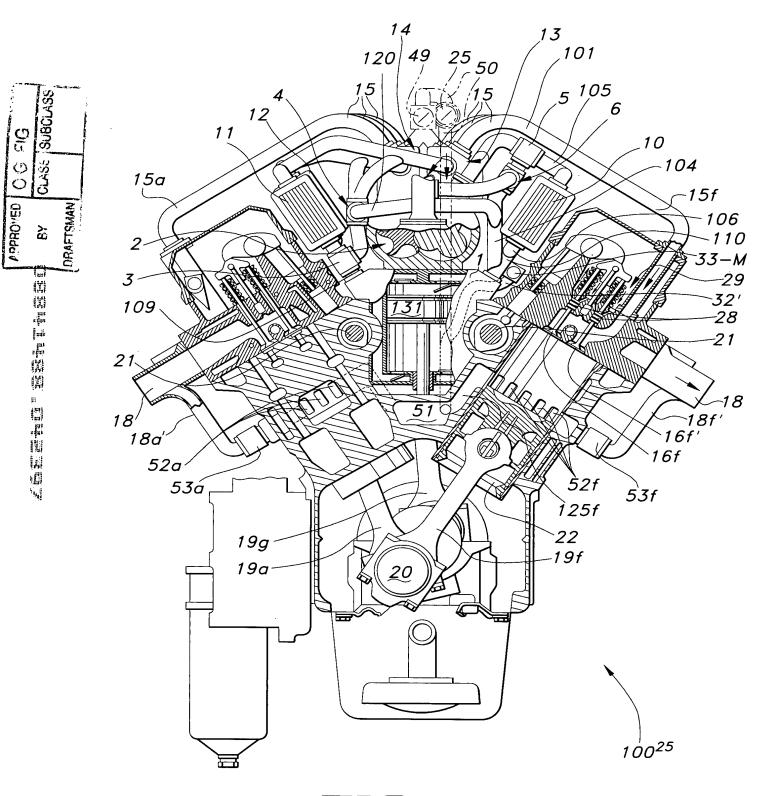
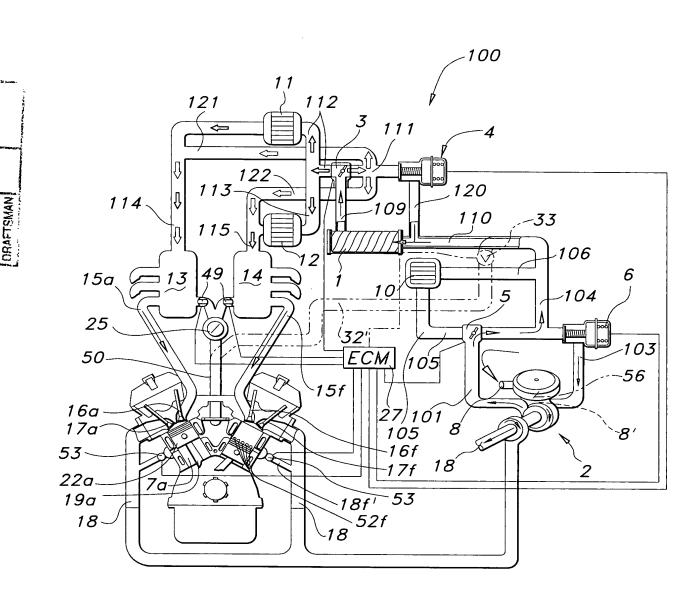
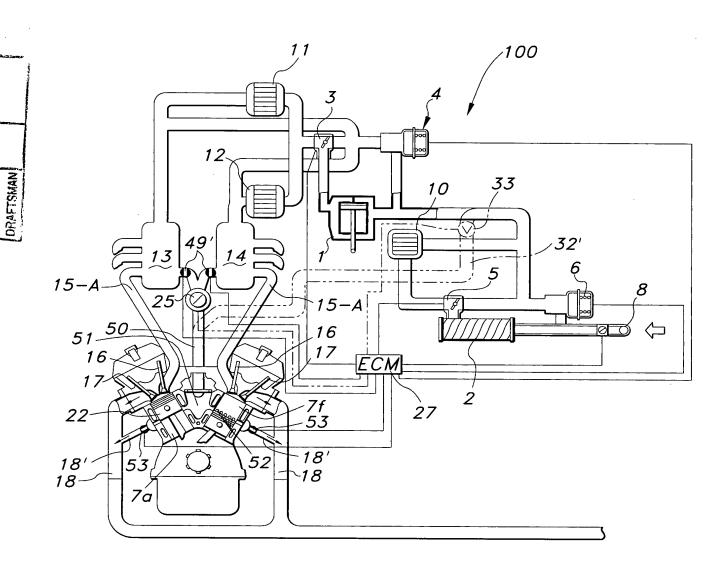


FIG 25



APPROVED O C FIG. BY OLASS SUBCLASS

FIG 26



APPROVED O.G. FIG.

FIG 27

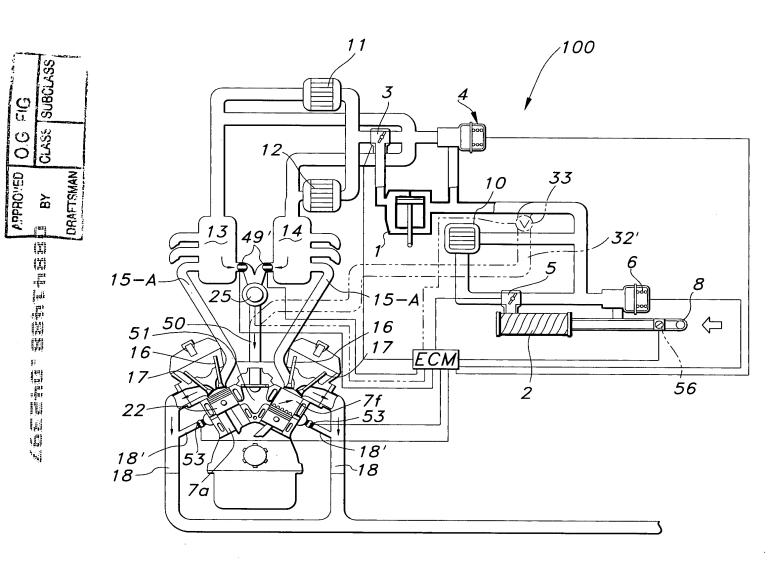
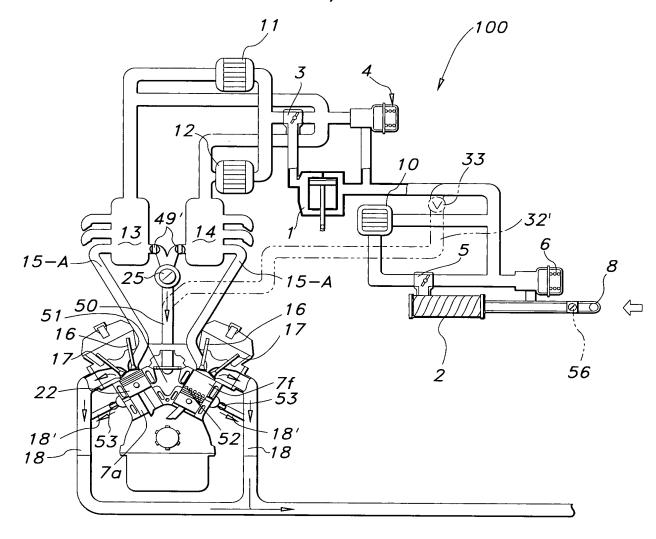


FIG 28



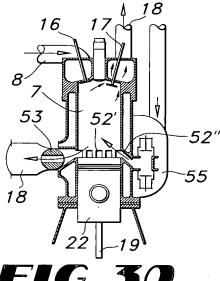
CLASS SUBCLASS

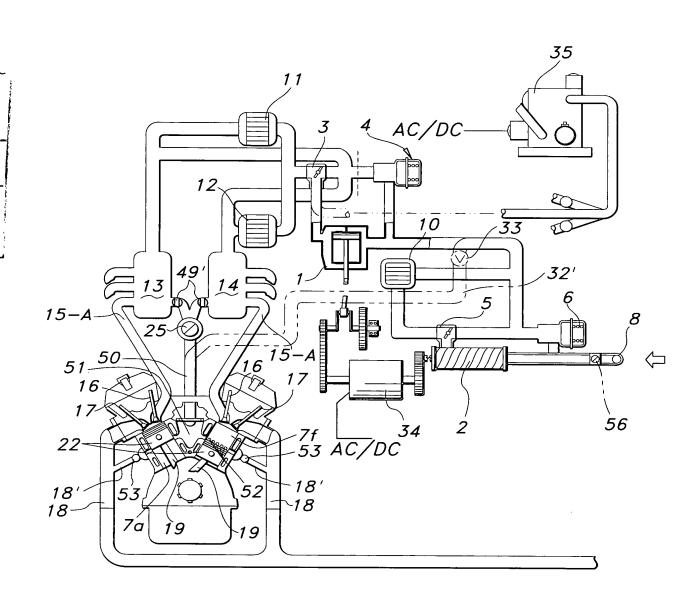
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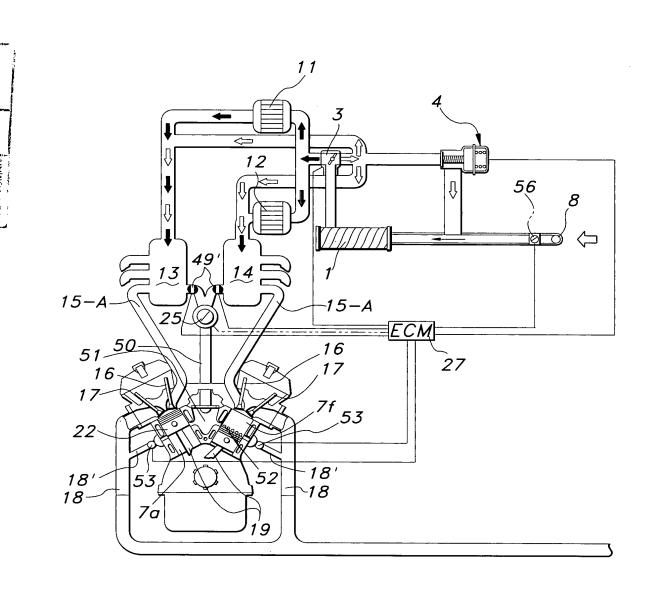




APPROYED O.G. FIG.

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FIG 31



CLASS SUBCLASS

APPROVED O.G. FIG.

Colored Synthems By

FIG 32

